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Subject: Geane crashes in PndPidCorrelator

Posted by [Jens Sören Lange](#) on Thu, 04 Mar 2010 11:18:19 GMT

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Hi all,

even after Stefano's and Dima's fixes there are still Geane crashes in the PndPidCorrelator (which we need for the MicroCandidates and the kfinder). This happens in particular for electrons, and in particular when PHOTOS is switched on (!) in EvtGen (but unclear yet, why this has any impact on Geane). On the other hand, for muons it seems not to occur.

Anyway: we need to find a pragmatic solution.

Therefore an idea: does anyone maybe know, if there is a trick how we can catch the SIGSEGV (for example in tutorials/charmonium/run\_pid\_tpccombi.C) and jump to the next event instead of crashing completely?

Soeren & Martin

=====  
There was a crash.

This is the entire stack trace of all threads:

=====  
#0 0x000000347c099c85 in waitpid () from /lib64/libc.so.6  
#1 0x000000347c03c331 in do\_system () from /lib64/libc.so.6  
#2 0x00002acc0ada4da9 in TUnixSystem::StackTrace ()  
from /home/emjayg/fairsoft/tools/root/lib/libCore.so.5.26  
#3 0x00002acc0ada29c3 in TUnixSystem::DispatchSignals ()  
from /home/emjayg/fairsoft/tools/root/lib/libCore.so.5.26  
#4 <signal handler called>  
#5 0x00002acc1c805cc3 in g3ekbin\_ ()  
from /home/emjayg/fairsoft/transport/geant3/lib/tgt\_linuxx8664gcc/libgeant321 .so  
#6 0x00002acc1c902465 in ertrak\_ ()  
from /home/emjayg/fairsoft/transport/geant3/lib/tgt\_linuxx8664gcc/libgeant321 .so  
#7 0x00002acc1c99ad57 in TGeant3::Ertrak ()  
from /home/emjayg/fairsoft/transport/geant3/lib/tgt\_linuxx8664gcc/libgeant321 .so  
#8 0x00002acc178e031a in FairGeanePro::FindPCA (this=0x4a3d0220, pca=1,  
PDGCode=-13, point=<incomplete type>, wire1=<incomplete type>,  
wire2=<incomplete type>, maxdistance=18.954264406277513, Rad=  
0x4a3d0478,  
vpf=  
0x4a3d0488, vwi=  
0x4a3d04b0, Di=  
0x4a3d0480, trklength=  
0x4a3d04d8)  
at /home/emjayg/pandaroot/trunk/geane/FairGeanePro.cxx:556  
#9 0x00002acc178e4cb7 in FairGeanePro::Propagate (this=0x4a3d0220,  
TParam=0x4a3d00a0, TEnd=0x4a3d0760, PDG=-13)  
at /home/emjayg/pandaroot/trunk/geane/FairGeanePro.cxx:104  
#10 0x00002acc1953fdb4 in PndPidCorrelator::GetTrackInfo (this=0x1fe98390,  
track=0x2720da70, pidCand=0x4a3cfed0)

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at /home/emjayg/pandaroot/trunk/pid/PidCorr/PndPidTrackInfo.cxx:47
#11 0x00002acc195392cf in PndPidCorrelator::ConstructChargedCandidate (
    this=0x1fe98390)
    at /home/emjayg/pandaroot/trunk/pid/PidCorr/PndPidCorrelator.cxx:348
#12 0x00002acc195395c2 in PndPidCorrelator::Exec (this=0x1fe98390,
    option=0x2acc12201e88 "")
    at /home/emjayg/pandaroot/trunk/pid/PidCorr/PndPidCorrelator.cxx:320
#13 0x00002acc0ad2fdf9 in TTask::ExecuteTasks ()
    from /home/emjayg/fairsoft/tools/root/lib/libCore.so.5.26
#14 0x00002acc0ad2f86b in TTask::ExecuteTask ()
    from /home/emjayg/fairsoft/tools/root/lib/libCore.so.5.26
#15 0x00002acc12187923 in FairRunAna::Run (this=0x1ee5f080, Ev_start=0,
    Ev_end=5000) at /home/emjayg/pandaroot/trunk/base/FairRunAna.cxx:271
#16 0x00002acc121c2ee4 in G__FairDict_669_0_5 (result7=0x7fff61da0880,
    funcname=0x1ee5b9a0 "\001", libp=0x7fff61d95e70, hash=0)
    at /home/emjayg/pandaroot/build/base/FairDict.cxx:9099
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